

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/017,327A  
Source: IFW16  
Date Processed by STIC: 07/29/2005

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 07/29/2005

PATENT APPLICATION: US/10/017,327A

TIME: 10:44:43

Input Set : E:\5028.ST25.txt

Output Set: N:\CRF4\07292005\J017327A.raw

SAME

3 <110> APPLICANT: Genzyme Corporation  
 4 Nicolette, Charles A.  
 6 <120> TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS AND METHODS FOR USING  
 8 <130> FILE REFERENCE: 5028CIP  
 10 <140> CURRENT APPLICATION NUMBER: US 10/017,327A  
 11 <141> CURRENT FILING DATE: 2001-12-06  
 13 <150> PRIOR APPLICATION NUMBER: US 09/870,216  
 14 <151> PRIOR FILING DATE: 2001-05-30  
 16 <160> NUMBER OF SEQ ID NOS: 12  
 18 <170> SOFTWARE: PatentIn version 3.2  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 1280  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Homo sapiens  
 25 <400> SEQUENCE: 1

26	gaaagatggc	gtccccgaag	gaagggtaccg	gctctactgc	cacctcttcc	agctccaccg	60
28	ccggcgcgagc	agggaaaggc	aaaggcaaaag	gcggctcggg	agattcagcc	gtgaagcaag	120
30	tgcagataga	tggccttggtg	gtattaaaga	taatcaaaca	ttatcaagaa	gaaggacaag	180
32	gaactgaagt	tgttcaagga	gtgcttttgg	gtctggttgt	agaagatcgg	cttgaaatta	240
34	ccaactgctt	tcctttccct	cagcacacag	aggatgatgc	tgactttgat	gaagtccaat	300
36	atcagatgga	aatgatgcgg	agccttcgcc	atgtaaacad	tgatcatctt	cacgtgggct	360
38	ggtatcagtc	cacatactat	ggctcattcg	ttaccggggc	actcctggac	tctcagttta	420
40	gttaccagca	tgccattgaa	gaatctgtcg	ttctcattta	tgatcccata	aaaactgccc	480
42	aaggatctct	ctcactaaag	gcatacagac	tgactcctaa	actgatggaa	gtttgtaaag	540
44	aaaaggattt	ttccccgtgaa	gcattgaaaa	aagcaaatat	cacctttgag	tacatgtttg	600
46	aagaagtgcc	gattgtaatt	aaaaattcac	atctgatcaa	tgtcctaattg	tgggaacttg	660
48	aaaagaagtc	agctgttgca	gataaacatg	aattgctcag	ccttgccagc	agcaatcatt	720
50	tggggaagaa	tctacagttg	ctgatggaca	gagtggatga	aatgagccaa	gatatagtta	780
52	aatacaacac	atacatgagg	aatactagta	aacaacagca	gcagaaacad	cagtatcagc	840
54	agcgtcgcca	gcaggagaat	atgcagcgcc	agagccgagg	agaacccccg	ctccctgagg	900
56	aggacctgtc	caaactcttc	aaaccaccac	agccgcctgc	caggatggac	tcgctgctca	960
58	ttgcaggcca	gataaacact	tactgccaga	acatcaagga	gttcaactgc	caaaacttag	1020
60	gcaagctctt	catggcccag	gctcttcaag	aatacaacaa	ctaagaaaag	gaagtttcca	1080
62	gaaaagaagt	taacatgaac	tcttgaaagtc	acaccagggc	aactcttgga	agaaatatat	1140
64	ttgcatattg	aaaagcacag	aggattttctt	tagtgtcatt	gccgattttg	gctataacag	1200
66	tgtctttcta	gccataataa	aataaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1260
68	aaaaaaaaaa	aaaaaaaaaa					1280
71	<210>	SEQ ID NO: 2					
72	<211>	LENGTH: 352					
73	<212>	TYPE: PRT					
74	<213>	ORGANISM: Homo sapiens					
76	<400>	SEQUENCE: 2					
78	Met	Ala	Ser	Arg	Lys	Glu	Gly
	Thr	Gly	Ser	Thr	Ala	Thr	Ser
	Ser	Ser	Ser				

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```

79 1          5          10          15
82 Ser Thr Ala Gly Ala Ala Gly Lys Gly Lys Gly Lys Gly Ser Gly
83          20          25          30
86 Asp Ser Ala Val Lys Gln Val Gln Ile Asp Gly Leu Val Val Leu Lys
87          35          40          45
90 Ile Ile Lys His Tyr Gln Glu Glu Gly Gln Gly Thr Glu Val Val Gln
91          50          55          60
94 Gly Val Leu Leu Gly Leu Val Val Glu Asp Arg Leu Glu Ile Thr Asn
95 65          70          75          80
98 Cys Phe Pro Phe Pro Gln His Thr Glu Asp Asp Ala Asp Phe Asp Glu
99          85          90          95
102 Val Gln Tyr Gln Met Glu Met Met Arg Ser Leu Arg His Val Asn Ile
103          100          105          110
106 Asp His Leu His Val Gly Trp Tyr Gln Ser Thr Tyr Tyr Gly Ser Phe
107          115          120          125
110 Val Thr Arg Ala Leu Leu Asp Ser Gln Phe Ser Tyr Gln His Ala Ile
111          130          135          140
114 Glu Glu Ser Val Val Leu Ile Tyr Asp Pro Ile Lys Thr Ala Gln Gly
115 145          150          155          160
118 Ser Leu Ser Leu Lys Ala Tyr Arg Leu Thr Pro Lys Leu Met Glu Val
119          165          170          175
122 Cys Lys Glu Lys Asp Phe Ser Pro Glu Ala Leu Lys Lys Ala Asn Ile
123          180          185          190
126 Thr Phe Glu Tyr Met Phe Glu Glu Val Pro Ile Val Ile Lys Asn Ser
127          195          200          205
130 His Leu Ile Asn Val Leu Met Trp Glu Leu Glu Lys Lys Ser Ala Val
131          210          215          220
134 Ala Asp Lys His Glu Leu Leu Ser Leu Ala Ser Ser Asn His Leu Gly
135 225          230          235          240
138 Lys Asn Leu Gln Leu Leu Met Asp Arg Val Asp Glu Met Ser Gln Asp
139          245          250          255
142 Ile Val Lys Tyr Asn Thr Tyr Met Arg Asn Thr Ser Lys Gln Gln Gln
143          260          265          270
146 Gln Lys His Gln Tyr Gln Gln Arg Arg Gln Gln Glu Asn Met Gln Arg
147          275          280          285
150 Gln Ser Arg Gly Glu Pro Pro Leu Pro Glu Glu Asp Leu Ser Lys Leu
151          290          295          300
154 Phe Lys Pro Pro Gln Pro Pro Ala Arg Met Asp Ser Leu Leu Ile Ala
155 305          310          315          320
158 Gly Gln Ile Asn Thr Tyr Cys Gln Asn Ile Lys Glu Phe Thr Ala Gln
159          325          330          335
162 Asn Leu Gly Lys Leu Phe Met Ala Gln Ala Leu Gln Glu Tyr Asn Asn
163          340          345          350
166 <210> SEQ ID NO: 3
167 <211> LENGTH: 9
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Compound 1

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Input Set : E:\5028.ST25.txt

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174 <400> SEQUENCE: 3  
 176 Phe Leu Gln Leu Met Glu Pro Val  
 177 1 5  
 180 <210> SEQ ID NO: 4  
 181 <211> LENGTH: 27  
 182 <212> TYPE: DNA  
 183 <213> ORGANISM: Artificial  
 185 <220> FEATURE:  
 186 <223> OTHER INFORMATION: Compound 1  
 189 <220> FEATURE:  
 190 <221> NAME/KEY: misc\_feature  
 191 <222> LOCATION: (6)..(6)  
 192 <223> OTHER INFORMATION: n = A,T,C, or G  
 194 <220> FEATURE:  
 195 <221> NAME/KEY: misc\_feature  
 196 <222> LOCATION: (10)..(10)  
 197 <223> OTHER INFORMATION: n = A,T,C, or G  
 199 <220> FEATURE:  
 200 <221> NAME/KEY: misc\_feature  
 201 <222> LOCATION: (12)..(12)  
 202 <223> OTHER INFORMATION: n = A,T,C, or G  
 204 <220> FEATURE:  
 205 <221> NAME/KEY: misc\_feature  
 206 <222> LOCATION: (13)..(13)  
 207 <223> OTHER INFORMATION: n = A,T,C, or G  
 209 <220> FEATURE:  
 210 <221> NAME/KEY: misc\_feature  
 211 <222> LOCATION: (15)..(15)  
 212 <223> OTHER INFORMATION: n = A,T,C, or G  
 214 <220> FEATURE:  
 215 <221> NAME/KEY: misc\_feature  
 216 <222> LOCATION: (24)..(24)  
 217 <223> OTHER INFORMATION: n = A,T,C, or G  
 219 <220> FEATURE:  
 220 <221> NAME/KEY: misc\_feature  
 221 <222> LOCATION: (27)..(27)  
 222 <223> OTHER INFORMATION: n = A,T,C, or G  
 224 <400> SEQUENCE: 4

W--&gt; 225 tyytncarn tntnatgga rccngtn

27

228 <210> SEQ ID NO: 5  
 229 <211> LENGTH: 9  
 230 <212> TYPE: PRT  
 231 <213> ORGANISM: Artificial  
 233 <220> FEATURE:  
 234 <223> OTHER INFORMATION: Compound 2  
 236 <400> SEQUENCE: 5  
 238 Phe Leu Gln Leu Glu Phe Asp Ala Val  
 239 1 5  
 242 <210> SEQ ID NO: 6

## RAW SEQUENCE LISTING

DATE: 07/29/2005

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TIME: 10:44:43

Input Set : E:\5028.ST25.txt

Output Set: N:\CRF4\07292005\J017327A.raw

243 <211> LENGTH: 27  
 244 <212> TYPE: DNA  
 245 <213> ORGANISM: Artificial  
 247 <220> FEATURE:  
 248 <223> OTHER INFORMATION: Compound 2  
 251 <220> FEATURE:  
 252 <221> NAME/KEY: misc\_feature  
 253 <222> LOCATION: (6)..(6)  
 254 <223> OTHER INFORMATION: n = A,T,C, or G  
 256 <220> FEATURE:  
 257 <221> NAME/KEY: misc\_feature  
 258 <222> LOCATION: (10)..(10)  
 259 <223> OTHER INFORMATION: n = A,T,C, or G  
 261 <220> FEATURE:  
 262 <221> NAME/KEY: misc\_feature  
 263 <222> LOCATION: (12)..(12)  
 264 <223> OTHER INFORMATION: n = A,T,C, or G  
 266 <220> FEATURE:  
 267 <221> NAME/KEY: misc\_feature  
 268 <222> LOCATION: (24)..(24)  
 269 <223> OTHER INFORMATION: n = A,T,C, or G  
 271 <220> FEATURE:  
 272 <221> NAME/KEY: misc\_feature  
 273 <222> LOCATION: (27)..(27)  
 274 <223> OTHER INFORMATION: n = A,T,C, or G  
 276 <400> SEQUENCE: 6

W--> 277 **ttyytncarn tngarttyga ygcngrn**

27

280 <210> SEQ ID NO: 7  
 281 <211> LENGTH: 9  
 282 <212> TYPE: PRT  
 283 <213> ORGANISM: Artificial  
 285 <220> FEATURE:  
 286 <223> OTHER INFORMATION: Compound 3  
 288 <400> SEQUENCE: 7  
 290 Phe Leu Trp Phe Glu Ile Asp Ile Val  
 291 1 5  
 294 <210> SEQ ID NO: 8  
 295 <211> LENGTH: 27  
 296 <212> TYPE: DNA  
 297 <213> ORGANISM: Artificial  
 299 <220> FEATURE:  
 300 <223> OTHER INFORMATION: Compound 3  
 303 <220> FEATURE:  
 304 <221> NAME/KEY: misc\_feature  
 305 <222> LOCATION: (6)..(6)  
 306 <223> OTHER INFORMATION: n = A,T,C, or G  
 308 <220> FEATURE:  
 309 <221> NAME/KEY: misc\_feature  
 310 <222> LOCATION: (27)..(27)

## RAW SEQUENCE LISTING

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Input Set : E:\5028.ST25.txt

Output Set: N:\CRF4\07292005\J017327A.raw

```

311 <223> OTHER INFORMATION: n = A,T,C, or G
313 <400> SEQUENCE: 8
W--> 314 tyytntgggt tygarathga yathgtn 27
317 <210> SEQ ID NO: 9
318 <211> LENGTH: 9
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Compound 4
325 <400> SEQUENCE: 9
327 Phe Leu Ser Tyr Asp Leu Phe Val Val
328 1 5
331 <210> SEQ ID NO: 10
332 <211> LENGTH: 27
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Compound 4
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (6)..(6)
343 <223> OTHER INFORMATION: n = A,T,C, or G
345 <220> FEATURE:
346 <221> NAME/KEY: misc_feature
347 <222> LOCATION: (9)..(9)
348 <223> OTHER INFORMATION: n = A,T,C, or G
350 <220> FEATURE:
351 <221> NAME/KEY: misc_feature
352 <222> LOCATION: (18)..(18)
353 <223> OTHER INFORMATION: n = A,T,C, or G
355 <220> FEATURE:
356 <221> NAME/KEY: misc_feature
357 <222> LOCATION: (24)..(24)
358 <223> OTHER INFORMATION: n = A,T,C, or G
360 <220> FEATURE:
361 <221> NAME/KEY: misc_feature
362 <222> LOCATION: (27)..(27)
363 <223> OTHER INFORMATION: n = A,T,C, or G
365 <400> SEQUENCE: 10
W--> 366 tyytwnsnt aygayynttt ygtngtn 27
369 <210> SEQ ID NO: 11
370 <211> LENGTH: 9
371 <212> TYPE: PRT
372 <213> ORGANISM: Homo sapiens
374 <400> SEQUENCE: 11
376 Asn Leu Gln Leu Leu Met Asp Arg Val
377 1 5
380 <210> SEQ ID NO: 12
381 <211> LENGTH: 27

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/017,327A

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Input Set : E:\5028.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 6,10,12,13,15,24,27

Seq#:6; N Pos. 6,10,12,24,27

Seq#:8; N Pos. 6,27

Seq#:10; N Pos. 6,9,18,24,27

Seq#:12; N Pos. 24,27

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10

**VERIFICATION SUMMARY**

DATE: 07/29/2005

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TIME: 10:44:44

Input Set : E:\5028.ST25.txt

Output Set: N:\CRF4\07292005\J017327A.raw

L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0